

NEWSLINE

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JOSEPH MARTINEZ/TID

From left: Richard Mortensen of DOE's Oakland Operations Office gave plaques commemorating completion of Site 300's new fire station and medical center (above) to Jim Seward and Fire Chief John Sharry.



New emergency center at Site 300

By Don Johnston

NEWSLINE STAFF WRITER

In a ceremony underlining the importance of Site 300 to Laboratory missions, the experimental test site's new fire station and medical center were dedicated Thursday.

"Interesting, important and unique work has been done at Site 300, which has made an important contribution to the Laboratory and to the security of the nation," said Bill

Bookless, deputy AD for Defense and Nuclear Technologies. "Site 300 is an essential part of our

See **SITE 300**, page 7

DOE seeks better fire preparedness

With three of its national laboratories damaged or threatened by massive wildfires over the summer, Energy Secretary Bill Richardson has assembled a

nationwide panel of experts to better prepare the Department of Energy to prevent and respond to fires.

See **FIRE**, page 7

Lab's astrophysicists help researchers get closer grasp on space's most distant object

PUBLIC AFFAIRS OFFICE

Laboratory astrophysicists Wil Van Breugel and Wim De Vries, with colleagues from several universities and observatories, have stripped a galaxy near the Big Dipper of its title as the "Most Distant Object Known" by showing that the initial distance estimate was incorrect.

The findings, which will be published in the Nov. 30 issue of *Nature*, are based on very deep images obtained using the world's largest W.M. Keck Observatory's 10-meter telescopes in Hawaii earlier this year.

A team of SUNY-Stony Brook astronomers, led by Hsiao-Wen Chen, reported observations of this same object, commonly known as STIS 123627+621755, using the NASA's Hubble Space Telescope. Based on the extremely red colors of STIS 123627+621755 and a single emission line in its spectrum, thought to be hydrogen, the team estimated that this was a galaxy at an approximate distance of 12.5 billion light years. This implied that the galaxy should essentially be invisible in the



The Keck telescope was used by scientists to measure what had been the most distant galaxy.

See **SPACE**, page 8

Lab has minimal impact on environment, annual report finds

The 1999 Site Annual Environmental Report concludes that radiological doses to the public caused by Laboratory operations are about 1 percent of regulatory standards. This is about 2,500 times smaller than the doses received from natural background radiation by U.S. citizens, on average.

The analytical results and evaluations generally show continuing low contaminant levels. This reflects both decreased operations at the Laboratory and its increasing control of pollutants.

Environmental compliance activities in 1999 had significant achievements:

- Livermore site ground water remediation activities treated over 1 billion liters of ground water; reducing the concentration and length of contaminant plumes migrating westward off site.

- Site 300 environmental remediation activities have eliminated the contaminant



The Site Environmental Report is on the Web.

plumes migrating eastward off site.

- Sanitary sewer discharges were 100 percent compliant with the Livermore Water

Reclamation Plant standards.

- The highest median concentration of tritium for samples collected at any air monitoring station was 0.1 percent at the federal standard. It was 0.0036 percent for plutonium.

In summary, the 1999 SAER documents that environmental impacts of LLNL operations are minimal.

The Laboratory manages numerous monitoring activities. The air is monitored for plutonium, tritium and other radionuclides. Air is monitored at various locations on the Livermore site, throughout the Livermore Valley and in the Tracy area. Concentrations of all monitored radionuclides and beryllium at all locations were well below levels that would endanger the environment or public health.

For example, the highest median concentration of plutonium for all sampling locations was 0.0036 percent of the federal standard. The

See **ENVIRONMENT**, page 8



New rules for incidental use of Lab computers
— Page 3



Schools find financial freedom via Liberty group
— Page 5



Opportunities to expand your horizons
— Insert



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday
1

Today is the last day to place an order for **gourmet cookie dough and frozen cheesecakes** for the LLESA Children's Center holiday fund-raiser. The cookie dough comes in three-pound tubs at \$10 each in seven varieties: sugar, chocolate chip, M&M's, peanut butter, oatmeal raisin, white macadamia nut and walnut brownie. The cheesecakes come in three sizes in a new assortment of five flavors: raspberry swirl, cookies & cream, and New York style come in a 22-ounce-size (serves five) and sell for \$11. Cherries jubilee and caramel turtle are 30 ounces for \$15, and the baby cheesecake sampler (12 pieces, four flavors) is 16 ounces for \$12. Orders will be distributed on Monday, Dec. 11. Contact Jave Kane, 4-5805, or Sue Wolfe, 3-2423.

Saturday
2

There is a **scheduled power outage** from 7 a.m. to 7 p.m. in the following locations: Bldg. 253 and 255 and trailers 2512, 2525, 2526, 2527, 2529, 2530, 2552, 2626, 2629 and 2679. Contact: Mark Cardoza, 3-0490

Thursday
7

The Laboratory is about to kick off the cycle for the 2001 **R&D 100 Awards**, known as the "Oscars of invention." A workshop to inform potential applicants of the submission process will be held at 9:30 a.m. in the Bldg. 543 auditorium. The presentation will include a former R&D 100 judge who will offer insight on how to put together a winning entry. All submissions are due to R&D Magazine by March 2. Contact: Darlene Horne, 3-1929.

UP
&
COMING

The Employee and Organization Development Division has a limited number of openings in the following course: **"Professional Development Seminar for Administrative Specialists,"** (ED7472), to be held Dec. 11-12 from 8:30 a.m. to 4:30 p.m. in trailer 1879. Cost of the course is \$210-\$300, depending on the number of participants. Register online at LTRAIN, https://www-ais.llnl.gov/llnl_only/docs/hr/ltrain or contact EODD at 2-4842.

...

Joyce Riggin, assistant administrator from Friendship Center, Livermore Area, Recreation & Park District, will present **"Holiday Survivor Tips for Eldercare Care Givers"** at noon on Thursday, Dec. 14, in the Visitor Center Auditorium. There will be a question and answer session following her presentation. No reservations are required. Family members of Lab employees/SLO employees are welcome and do not need badges. This talk is sponsored by Health Services Elder Care Support Group. Contact: Marnette Yeager, 2-1217.

In the GSA spotlight



JOSEPH MARTINEZ/TID

Ken Altshuler, a photographer for the General Services Administration, spent a day at the Lab recently making a video about the Lab Property Management Division's Donation, Utilization and Sales Group. Here, he videotapes sales administrator Mary Ann Chapeta. The video will be featured on the GSA Website sometime after the first of the year. The video will show how the Lab's DUS group processes excess equipment, furniture, office supplies and computers through its "Second Time Around" store on site. If the excess property cannot be used at the Lab, it is entered into a federal database and can be used throughout the federal system. There is no charge for the excess equipment, just the transportation costs. "We've been using this system for a couple of years. It's more efficient and saves a lot of taxpayer money," said Glenda Smithies, DUS group leader.

HOME cookin'

Chemistry & Materials Science held its annual chili cook-off recently to raise money for the HOME Campaign. At right, cooks Ann Bliss and Darrin Valentine dish up some of their home-cooked chili for Ken Marsh. Approximately 60 people attended the cook off, which raised \$120. The proceeds were evenly divided and donated to each of the two winning entries' favorite HOME charities. See page 5 for more HOME-related stories and pictures.

JOSEPH MARTINEZ/TID



Newsline

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AROUND THE LAB

Russian weapons skills tapped for commerce

A new computing center in one of Russia’s 10 closed and formerly secret nuclear cities will provide commercial research opportunities to former weapons specialists.

Former Ambassador Ronald Lehman, director of the Lab’s Center for Global Security Research, joined with senior officials from the Department of Energy last week to commission the “Strela” Open Computing Center in Snezhinsk, Russia.

“Commissioning the Strela Open Computing Center lays another brick in the foundation of our work with Russia to reduce proliferation dangers and enhance the national security of both of our nations,” said Lehman. “This center will make it easier for Western firms to employ Russia’s highly skilled computer programming and software experts in non-weapons work.”

The Strela Open Computing Center will provide research opportunities to former nuclear weapons specialists in computer software programming and modeling and computer-assisted engineering and design. Four projects with commercial support or interest will begin immediately and include:



Ron Lehman

genome sequence analysis tools with research partners at the Laboratory for use in the pharmaceuticals industry;

• Improving mechanical engineering simulation code useful in the automotive and other industries with the Livermore Software Technology Corp.

Five additional projects at the Strela Open Computing Center are expected to get under way in the next several months. Taken together, as many as

• Improving numerical simulation for wood composite manufacturing with Virginia Polytechnic Institute;

• Developing multimedia data interchange and communication software components for the Animatek World Builder;

• Developing

120 former weapons specialists are likely to be engaged in high-tech jobs in the first year, with the number expected to double in the following year as the city’s capabilities and commercial opportunities become known.

The Strela Center was established under the Nuclear Cities Initiative (NCI), a U.S.-Russian cooperative program designed to accelerate Russia’s planned consolidation of its nuclear weapon complex, while also lowering the risk that displaced Russian nuclear weapons specialists might sell their know-how to countries of proliferation concern or terrorists.

In addition to opening the computing center, DOE also announced that it would provide \$9.7 million in funding for new and ongoing projects for Snezhinsk. This includes \$3.9 million from NCI and \$5.8 million from DOE’s Initiatives for Proliferation Prevention, which, like NCI, is designed to prevent a “brain drain” of former Soviet weapons of mass destruction specialists.

The U.S. government funding is also expected to leverage and attract additional investments from private industry and foundations.

Al-Ayat named director of Laboratory Science and Technology Office

Rokaya Al-Ayat has been selected as director of the Laboratory Science and Technology Office, Deputy Director Jeff Wadsworth announced in a recent Administrative Memo.

As LSTO director, Al-Ayat will be responsible for a variety of activities in support of LLNL’s scientific and technical infrastructure and for promoting LLNL accomplishments. Current LSTO activities include the Laboratory-Directed Research and Development Program, the annual University of California Science and Technology Assessment process, Public Interest Work projects, the Director’s Distinguished Lecturer Series, and the Laboratory Science and Technology Awards System.

“I am very pleased and honored,” she said of



Rokaya Al-Ayat

Directorate in 1978 where she assumed various responsibilities including group leader and associ-

her appointment. “Having served as an acting director for close to six months, I am looking forward to selecting an LSTO deputy as my first order of business and to begin planning for the FY02 LDRD cycle.”

“Rokaya is highly qualified for this appointment,” said Wadsworth. “She joined the LLNL Engineering

ate division leader of Systems Sciences. She also served as an associate program leader for the DOE Nuclear Safeguards Program and has served on many internal and external committees.”

Al-Ayat holds a master’s degree and a Ph.D. in applied mathematics and a master’s degree in industrial engineering and operations research.

As LSTO director, she said she would stress strong institutional support for research and development since it plays “a crucial role in ensuring that LLNL remains a first-class institution. In the current environment, it is more important than ever that we strive to increase and effectively manage the Laboratory’s investment in far-reaching R&D efforts and to foster outstanding science and technology.”

New Lab policy for incidental computer use approved



CIO
UPDATE

By Dave Cooper

The Laboratory’s Computer Security Council (CSC) announced today the approval of a new Laboratory policy. To help create a more supportive work environment, the Incidental Personal Use of Unclassified Information Technology (IT) Resources policy (P-2023) extends to employees new privileges and additional responsibilities for the incidental use of LLNL computing hardware and software.

The policy, which goes into effect immediately, allows incidental personal use by employees of unclassified computing resources as long as that use does not interfere with an employee’s assigned duties or with the Laboratory’s operations. Such use is allowable if it does not burden the Laboratory with noticeable incremental costs, does not bring discredit to the Laboratory, and does not cast significant doubt on an employee’s reliability, trustworthiness, or ability to work with others within the Laboratory community.

Authorized incidental personal use

The policy provides some examples to clarify the difference between allowable (“authorized”) and inappropriate (“unauthorized”) incidental personal use. The following are examples of allowable incidental personal uses of IT resources under this policy:

- Using e-mail for non-official communications.
- Checking credit union or UC/LLNL-sponsored retirement accounts.
- Retaining personal data in electronic files on the hard disk of your LLNL computer (although such files could be deleted without notice by scheduled archiving).
- Using the Internet to obtain information, such as reading newspaper or magazine articles, checking airline schedules and purchasing tickets, browsing sales catalogs, comparing automobile prices or obtaining road maps.
- Preparing resumes, letters, or other short personal documents.

Unauthorized incidental personal use

Employees are expected to conduct themselves professionally and to refrain from inappropriate activities. The policy provides examples of inappropriate and, therefore, unauthorized personal uses of IT resources. The following is a representative sampling of those examples (see the full text of the policy at <http://www-rl.llnl.gov/cso/Pubs/u-docs/P2023.pdf> for the complete list of examples):

- Using resources accredited for classified

processing.

- Modifying LLNL equipment by loading software or making configuration changes for non-work-related reasons.
- Causing congestion, delay, or disruption to any LLNL systems.
- Participating in chain letters or mass mailings, regardless of subject matter.
- Participating in any activities that are illegal, inappropriate, or offensive to other employees or the public.
- Participating in any activities involving sexually-oriented materials.
- Conducting any personal use of private, classified, or other non-public, copyrighted, or proprietary information.
- Gaining unauthorized access to other systems.
- Conducting any non-LLNL-sponsored fund raising, product endorsement, political, or lobbying activities.
- Supporting outside business activities with Laboratory resources.

Implementing the policy

While no additional funding requirements are anticipated to implement this policy, the Laboratory may use monitoring tools to detect improper use of unclassified IT resources.

David Cooper is Associate Director for Computation as well as LLNL’s Chief Information Officer.



NEWS YOU CAN USE

BRIEFLY

Call for nanotechnology proposals

The Department of Energy Office of Basic Energy Sciences has announced a call for proposals for research activities at DOE laboratories in nanoscale engineering, science, and technology (NEST). Funds up to \$18 million are available in FY01 for these activities.

This funding represents DOE's contribution to the \$227 million multi-agency National Nanotechnology Initiative (NNI) announced by President Clinton earlier this year. The emerging fields of nanoscience and nanoengineering — the ability to manipulate matter at the atomic scale — are likely to change the way almost everything is designed, synthesized and manufactured, from vaccines to computers to objects not yet imagined.

In response to this call, LLNL may submit as many as four proposals, which are due at DOE Germantown on Jan. 24. Because of the tight time constraints, short white papers (no more than two pages) should be submitted

electronically to Christian Mailhiot (mailhiot1@llnl.gov) by Friday, Dec. 8. Proposals must have an emphasis in materials sciences and engineering or in chemical sciences and may include aspects of nanobiosciences or geosciences within the scope of NEST.

The white paper should summarize the objectives, goals, approach and proposed budget as well as degree to which LLNL is uniquely qualified to pursue the proposed line of research.

For more information on NNI, see <http://www.er.doe.gov/production/bes/NNI.html>.

Ombuds Council launches survey

As part of an effort to better serve employees, the Laboratory's Ombuds Council will distribute a survey to UC Laboratory employees next week to assess awareness of ombuds programs across the Laboratory.

While ombuds services in some organizations, such as Chemistry and Materials Science and Computation, have existed for many years, Lab-wide services began only three years ago. The Labwide program was the result of employee rec-

ommendations made in the 1995 diversity survey.

Ombuds are a neutral and confidential resource for helping employees informally resolve such workplace issues as per-

formance appraisals, interpersonal conflicts, salary actions, reassignments or matters of policy interpretation. The Ombuds Council, made up of representatives from each of the Lab's ombuds programs, addresses common issues and ombuds training and development.

Please take a few minutes to fill out the survey and return by Friday, Dec. 15. For more information, check the Laboratory's ombuds Web page: <http://www-r.llnl.gov/ombuds/>.



Technical Meeting Calendar

Friday
1

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

"Observing the Assembly History of Galaxies," by Richard S. Ellis, Caltech. Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, allen64@llnl.gov.

Monday
4

PHYSICS & ADVANCED TECHNOLOGIES

"The Behavior of Nanostructured Materials at Ultra-High Rates of Deformation," by Dexin Jia, John Hopkins University. 10:30 a.m.,

Bldg. 319, room 205. Contact: Peter Fiske, 2-7489, fiske1@llnl.gov, or Miriam Rinnert, 2-7369, rinnert1@llnl.gov.

ENERGY & ENVIRONMENT FORUM

"Yucca Mountain Program (YMP) and Geosciences and Environmental Technology (GET)," 1:30 to 3 p.m., Bldg. 123 auditorium (open area). This is the third in a series of informal presentations on the scope and vision of the new Energy and Environment Directorate's programmatic and disciplinary activities. Contact: Mark Strauch, 2-1469.

UC DAVIS, DEPARTMENT OF APPLIED SCIENCE

"The National Missile Defense," by David Simon, UC Davis, 4 p.m. Bldg. 661 (Hertz Hall), room 13 (open area). Refreshments served at 3:30 p.m. for a "meet the speaker" session before seminar and at 5 p.m. after the seminar. Contact: Estelle Miller, 2-9787.

Tuesday
5

LIVERMORE COMPUTING

LC Customers' Monthly Meeting. 9:30 a.m., Bldg. 111, Poseidon Room (cleared area). Contact: Teresa Felgenhauer, felgenhauer2@llnl.gov.

H DIVISION SEMINAR

"Multiscale Modeling of Topography Evolution During Semiconductor Processing," by David Richards, Rensselaer Polytechnic Institute. 10:30 a.m., Bldg. 123, conference room A (open area). Contact: Donna Vercelli, 2-0976.

Thursday
7

H DIVISION

"Optical Spectroscopy at Megabar Pressures," by Eugene Gregoryanz, Carnegie Institute of Washington. 10:30 a.m., Bldg. 319, room 205 (open room). Contact: Donna Vercelli, 2-0976.

RESEARCH & DEVELOPMENT

"How To Win An R&D 100." A workshop to inform potential applicants of the submission process. 9:30 a.m. Bldg. 543 auditorium (uncleared area). The presentation will include a former R&D 100 judge who will offer insight on how to put together a winning entry. The R&D 100 competition is open to products or technologies "available for order" or license to the private sector. All submissions are due to *R&D Magazine* by March 2, 2001. Contact: Darlene Horne, 3-1929.

Friday
8

H DIVISION

"Molecular Electronics: What Is it?" by Massimiliano Di Ventra, Virginia Polytechnic Institute and State University. 10 a.m., Bldg. 319, room

205 (open area). Contact: Andrew Williamson, 2-8285, or Darlene Klein, 4-4844.

CHEMISTRY & MATERIALS SCIENCE

"Cs-Correction and EFTEM for Material Science Applications," by Bernd C. Kabius, LEO Elektronenmikroskopie GmbH, Germany. 10:30 a.m., Bldg. 235, room 1090 (uncleared area). Contact: Wayne King, 3-6547, or Nancy Pullen, 2-4321.

Monday
11

MATERIALS RESEARCH INSTITUTE

Nanoscience Workshop. Wente's Restaurant, Livermore. The purpose of this workshop is to identify all of the people involved in

nanoscience research at LLNL. This workshop will provide them with an opportunity to meet and learn about each other and the nanoscience research activities currently being performed at LLNL. Breakout sessions during the workshop will give the participants a chance to discuss resources that are available to support nanoscience here at the Laboratory, and give them the opportunity to explore possible collaborations in this research field. To register to attend this workshop, contact Joanne Maxwell, maxwell2@llnl.gov, by Dec. 6.

Wednesday
13

MATERIALS RESEARCH INSTITUTE (MRI)

"3D Dislocation Dynamics Simulations for Single Crystal Plasticity: Linking Length

Scales," by Meijie Tang, LLNL. 3:30 p.m., Bldg. 219, room 163 (refreshments at 3:15, open area). Contacts: John Molitoris, 3-3496, or Joanne Maxwell, 4-4344.

Deadline for the next calendar is noon, Wednesday, Dec. 6.

- Address e-mail to tmc-submit@llnl.gov or fax to 2-9291.
- Mail listings to Technical Meeting Calendar, L-797.
- Telephone ext. 2-9709 for information regarding the printed calendar.



THE HOME PAGE

Liberty foundation grants schools financial freedom

By Sheri Byrd

NEWSLINE STAFF WRITER

“Creative and innovative enhancement to classroom activity” certainly describes the snake-filled herpatarium in Brentwood’s Liberty High School science class.

Such enhancements are among the criteria required for a grant from the all-volunteer Liberty Union High School District Educational Foundation, serving Liberty and Freedom high schools in Brentwood and Oakley, as well as La Paloma Continuation High School and the district’s alternative and adult education programs.

“We’re looking for projects above and beyond regular school budget items,” said Greg Sherman, foundation board member and senior mechanical technologist at the Lab’s Laser Science Engineering Division.

“One teacher was able to purchase a camcorder for her students to tape mock job interviews,” added Sherman. “The students had a much better perspective of the interview process after watching themselves and others played back on video tape.”

Like many Lab employees living in Brentwood and Oakley, Sherman has two children currently attending schools directly assisted by the foundation, which hopes to become a regular part of the Lab’s annual HOME Campaign

Sherman joined the foundation two years ago when his daughter began her freshman year at Liberty. “I’ve always felt it is important to stay involved in the community,” he said. “I believe it is important to do what I can, especially for young people.”

Now that his daughter is a junior and his son has begun his high school career, the foundation has a successful history of helping teachers bring otherwise unavailable extra touches to their stu-



LEANN WOOD/LUHS DISTRICT

A student in the LUHS video production class, made possible in part by the Liberty foundation.

dents’ educational experience.

In its two years of existence, the foundation has raised over \$35,000 and awarded 25 grants to teachers, totaling approximately \$19,500. Typically, grants range from \$500 to \$1,000 and have funded such projects as on-line tutoring, field trips, audio and visual equipment, even reptiles and other pet projects for classroom observation. Sherman said the foundation also hopes to start funding college scholarships this year.

As a former member of both Brentwood’s City Council and Planning Commission, Sherman found himself with the ideal network to seek the donations needed to assist local high school teachers in their pursuit of educational excellence.

“We have been very lucky in receiving the support of many local businesses who know the importance of assisting our community schools,”

said Sherman. “I want to stress that we are an all-volunteer organization. We have no paid staff, so all donated funds go toward grants, and in turn directly benefit the students.”

The foundation hosts an annual showcase of projects funded each year.

“This is a great opportunity to show our sponsors their donations at work. It also attracts new sponsors when they see what a difference they can make.”

In addition, Sherman said, government officials and prospective teacher applicants view the various displays with potential funding in mind.

Strict accountability is required from applying teachers, both in their proposals to the foundation board, and in their reports upon completion of their projects. The board consists of nine active members, plus a member of the local school board and the superintendent of Liberty Union High School District.

“However,” Sherman continued, “we always have more proposals than we have money to grant, so we’re looking to the HOME and United Way campaigns now to really help us provide a strong local impact for Brentwood and Oakley students.”

Since this is the first year the LUHSD Educational Foundation has been associated with either campaign, it is not listed in the contribution guides. However, donations can be designated through the HOME and United Way’s write-in campaign by specifying Liberty Union High School District Educational Foundation, tax-exempt code number 501c3, 68-0278632.

For further information about the foundation, contact Greg Sherman at 3-9048.

Drawing to a close

Marta Holm, Nancy Salmon and Jim Miller participate in one of the final HOME incentive drawings. Today is the last day to submit pledge forms to become eligible.

For details, see www-r.llnl.gov/home2000/

DON JOHNSTON/NEWSLINE



Take HOME a T-shirt



Extra T-shirts from this year’s HOME campaign available for \$5; last year’s T-shirts, for \$2.

Sizes:  

Pick up shirts between 10 a.m. & 4:30 p.m., Bldg. 415, LLESA Office.

Make checks payable to your HOME charity of choice.

HOME statistics as of Nov. 30
TOTAL AMOUNT DONATED: \$906, 405

DIRECTORATE	TOTAL EMPLOYEES	TOTAL CONTRIBUTIONS	AMOUNT DONATED (ROUNDED OFF)	PERCENTAGE
Defense & Nuclear Technologies	375	124	50,228	33
Laboratory Executive Office	77	24	5,730	31
Computation	893	255	99,283	29
Engineering	2,009	584	208,555	29
Chemistry & Materials Science	448	205	74,289	46
Deputy Director for Operations	2,644	949	231,128	36
National Security	12	7	1,445	58
NIF	186	72	25,792	39
NAI	257	114	36,314	44
Director’s Office	72	35	16,772	49
Deputy Director, Science & Technology	63	21	5,526	33
Physics & Advanced Technologies	372	171	58,797	46
Biology & Biotechnology Research	236	116	26,594	49
Energy & Environment	327	125	45,325	38
Johnson Controls	SLO	103	18,582	0
Others	5	5	2,045	100
Totals	7,976	2,910	\$906,405	36%



Check out the Employee Ads Web Services site at:
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1991 Honda Accord EX wagon, am/fm cass, new timing belt, batt., 925-447-4406.

1992 - HONDA CIVIC, 2 door Red ext/Black & gray interior,custom wheels, great gas saver. \$5K OBO 209-606-7329

1993 - Mercedes 380 SL Roadster, red (new paint) w/cream interior, 116K miles, lots of extras incl chrome. Excellent condition \$15,500. 209-969-0819

1995 - Ford-Thunderbird-Red, 2Dr. V-8, GREAT Condition, A/C,CD Player,Alarm Syst.,Moon Roof, Power seats, windows,locks, LOADED, Low Miles - Asking \$8500.00 925-455-5010

1991 - Toyota pickup truck,exel.condition,5speed,80K mi,black/ silvershell, bedliner,bumper, 2-way window, portable cassette player \$5,500/OBO 650-368-8338

1993 - Pontiac Grand Prix. A/C, cruise, AM/FM/cassette. Excellent condition. \$4500 925-485-1988

1990 - Acura Legend LS (Dark Green), 4Dr, 174k mi., loaded w/ CD Changer, new brakes, battery, one owner, must see. \$5,600.00. 925-634-1140

1993 - Ford Explorer XLT, 4dr, 4wd, single owner, 56K miles, full 60K maintenance. Towing package, roof rack, new tires. Mocha frost. \$10500. 925-447-8313

AUTOMOBILE ACCESSORIES

Ford nine inch differential third members. 3.00 and 3.25 ratios, \$50 each. 1971-1973 Mustang axles, \$50 pair. 925-455-8609

Set of 175/70R13 tires, wheels, and hubcaps. Fits VW. Tires are nearly new. \$125 209-824-2177

BICYCLES

Bicycle, womens, 12-speed, 19 inch frame. 925-443-0536

Womens bicycle. On site at B-405. Great for getting around the site.,10 speed. \$50 obo. 209-825-5489

Childs Schwinn bicycle, excellent condition, 20-inch wheels, 6 speed grip shift, \$45. 925-606-6071

BOATS

1996 Cobia Sport 18ft open bow, great family boat, less than 100hrs, all the extras included, must see to appreciate. \$11,800 209-545-1932

ELECTRONIC EQUIPMENT

HI-FI SUBWOOFER. Optimus Pro SW-12 (Radio Shack) 12 inch speaker, crossover network with stereo connections. Like new, still in box. \$75 (1/2 price) 925-443-2245

15 inch color monior for PC, brand new, never used \$60 925-776-5612

THRUSTMASTER Motorsports Steering Wheel and Pedal controls for the PC. Like new CD, manual, have all. For Nascar, Need For Speed, ect. \$25 209-825-0326

Toshiba Infinia 7260 - \$300 or BO Pentium 166mhz, 32mB RAM, 2GB hard drive, 17 inch monitor w/ speakers. 925-606-7889

Pinball Machine. Gottlieb Pinball Pool. Excellent condition. \$600 209-824-2177

Surround Sound Marantz receiver. Excellent Christmas gift. Turn your TV into a home theater. Model SR-73 \$100. 925-600-0604

GIVEAWAY

21 ft. Sabre Jet Boat hull. Set up for v8 engine. 209-833-6452

Used Schlage passage locks and deadbolts. Also used Weiser passage locks. Used bathroom towel bars and used bathtub shower door set. 925-961-1658

HOUSEHOLD

6 pc bedroom set, twin bed, two dressers, nightstand, desk with bookshelf, exc. cond., great for kids' room. \$600. 925-449-1592

Dark pine dresser with mirror \$20. 925-449-0463

Gas powered garden tools, hedger \$75, blower \$65, 12in chain saw \$25, water extractor \$55, all excellent 925-736-7799

Queen size bed - wood frame, air mattress, asking \$125 or BO 925-449-5803

Solid Oak Dining table w/ 6 chairs, two w/ arms. Excellent condition. Round, w/ single wide leaf makes oval. \$800.00 or offer. 209-835-3370

Twin electric bed. VG condition. \$150.00 925-373-9540

FIREWOOD - Hardwood/Pine, fire-place size, well seasoned, delivered if necessary 925-634-2307

Freud 3 1/4 HP Plunge Router, model FT2000E. Electronic variable speed control. Excellent, complete, brand new in box, never used. \$170. 925-606-6515

CA King Waterbed—oak, good condition, Sealy flotation system, solid-state heater. Pedestal with 6 drawers. Includes some linens. \$100 or BO. 925-449-3478

Seasoned Almond fire wood, \$100/cord, U-haul,Tracy. 209-836-4425

Oak L-shaped computer desk with hutch. Has 2 file drawers, keyboard tray, 2 locking doors on hutch cabinets, solid backs. \$150.00 925-516-9510

Printer stand - \$20. TV/Stereo cabinet, black with CD and VHS storage and glass door - \$40. 209-825-5489

Foodsaver vacuumpacker, accessories, bags, manual, video. Used once. Works great. \$195 @ Costco. \$95/BO. 925-455-5439

Custom daybed (single bed) covers from model home. 2 sets of 2 each; bolsters/pillows. Neutral colors. Never used. \$150/set. 925-243-0760

Queen bedroom set, solid wood, \$300 obo. 925-455-1943

twin bed frame \$15 / Brown Recliner-good cond \$50/ 925-449-2064

Bissell Big Green carpet cleaner with attachments \$80 925-455-8158

Bissell Big Green Clean Machine, carpet cleaner, like new, \$100.00 obo 209-830-0684

Portable Spa - \$55 value, sell for \$28. 925-449-6048

King size mattress and box springs, very good condition. \$100.00 OBO. Leave message if not home. 209-835-9053

Black and Decker Vortex electric blower/mulcher vac. Good condition. \$30 925-447-5101

Omega Juicer. Was \$250 new, asking \$150. Has instruction book and paper liners. 925-243-1768

8 bookcases, Office furniture, lawn furniture, 2 treadmills, comforter sets, much more furniture, etc., moving. 925-443-5889

File cabinet - Metal two-drawer with wood grain look. \$15. 925-606-9781

MOVING SALE! Kids stuff, small

appliances, furniture, garden, linens, glassware, free weights and more! Call for list 925-754-0987

BOYS Clothes & More BOYS Clothes! Wonderful Condition! 12-24 mos. \$35.00; Play Along Barney, used for 5 minutes, wrong one! NEW \$20.00, Sell \$13.00. 925-447-1603

Square end tables with glass top inserts \$50, Large TV stand with doors and shelves \$40. 209-836-9082

Futon - Double size. Light pine wood frame with blue cover. Have photo. \$50 209-576-7560

SOLID OAK VCR and stereo cabinet, glass doors on top, solid doors on bottom \$75, Oak like CD tower \$15. 925-373-7658

COUCH AND LOVE SEAT, cream w/blue and mauve pattern. \$200/pair. 925-373-7658

Wagner Powerroll Plus Painting System, 10 pieces, automatic paint feed with fingertip flow control. Best offer accepted. 925-426-0069

Moving sale, beige 3-piece couch,beige lacquer & glass 3 piece entertainment center,solid teak box desk,etc. 925-371-1465

Two brown sofas that individually recline. \$500 for both. 925-456-8313

Entertainment center, oak solids and veneers, 60 in wide, 72 in tall, holds up to 35 in TV, \$200 or B/O 925-606-6155

Espresso/Cappuccina Maker, Maxim Model EX-102 very little used. \$30.00 OBO 209-836-2524

Entertainment center, solid pine, glass cabinet door, drawers and storage area, like new, 56in.Long/51in.High/19in.Deep, unfinished, \$180. 925-803-5804

MOVING SALE: full size bed (\$20), kitchen table (\$15), futon extra clean (\$50), brand new 20inch TV + VCR (\$80), women bike (\$20), and more... 925-425-0920

Whirlpool dishwasher good condition \$50.00 or offer, 6 ft. dual pane sliding glass door with aluminum frame, \$50.00 or offer. 209-599-5056

LOST & FOUND

Found. Earring in B123 after Charles Plumb talk. Identify it and its yours. 28121 or 209-954-9853

MISCELLANEOUS

Champion Juicer...excellent condition...\$50.00 209-835-3370

SUN DRIED APRICOTS - Holiday sale, volume discount, delivered 925-634-2307

Tablesaw, 10-inch, Craftsman, belt-drive, cast-iron top, with fence/miter, extensions. Will cut 24-inches to the right of blade. Has stand. \$140.00. 925-447-6099

Redwood fence boards 3/4x8x60 inch. Approx. 50 boards. \$50 for all. 925-455-8609

Over 250 Beanie Babies from 1994. Most are 95 and retired. Book value is over \$8K. Please make me an offer. 209-833-6452

400 feet 3/8in welded link chain \$125 or b/o 925-449-5282

full sheet panel router. 1/2 collet, 11/2 h.p. motor.old model in great shape.150.00 or b.o. 209-464-7971

Nintendo 64, 4 controllers, 2 memory cards, carrying case, 12 games, Tony Hawk pro skater, Turok, Quake2, StarWars, Hockey, Rush, Grand Prix. \$200 209-825-0326

Oak flooring, appx. 100 sf, with staples. \$100. New Screen doors for double french doors (to fit standard 10-ft wide double door). \$100/offer. 925-447-0592

Macintosh Ilcx. Best Offer. 68020 Processor, 8 MB RAM, 40 MB hard drive, 13 inch monitor. 25-606-7889

Exercise bench (Mini-max) with instructional video - \$35. FastTrack aerobic exercise machine - \$45. Melony 209-825-5489

WARDROBE BOXES; cardboard wardrobe moving boxes; used one day for local move; have 15 (will sell all or some); \$8 each; 925-634-1110

Bowling Ball - Zone Defense 16 lb fingerтип paid \$204 sell for \$100, used 1 season.Rhino (older) \$25,Zone 2 ball carry bag, paid \$125 sell for \$75. 209-545-1932

Delta 10 inch Contractors Table Saw. Many Extras. Excellent condition. \$725. 925-606-6515

Olympia Electronic Compact Typewriter with extra daisy wheel, ribbon and correction ribbon. Perfect condition. Make offer. 925-449-5481

Ski/snowboard clothes: insulated zip-up jacket (lg), pullover jacket (med), insulated pants (med) \$30 each 925-447-6450

Aerobic rider by Health rider. Excellent condition. \$100.00 obo Ab Works by Nordic track. Incl 20lb resist kit \$75.00 obo 209-830-0684

Mistake in window order. \$840 of new white vynal windows, Z-bar going for BO. Clear: 5x5, 4x5, 2x5. And 2x6 obscure flemish. 925-462-8811

Child-headboard/footboard for twin bed \$10, toy trucks \$2-10, infant toys \$3-6, pig figurines \$2-15 925-449-6048

Tractor - small Suzue garden tractor, 2 cyl.diesel w/bucket, 3 point hitch w/PTO. \$1500 or best offer.Call after 5:00 p.m. 925-443-3720

Jenny Lind Crib, New \$119, Sell \$45.00, Great Condition! LOTS of Boys Clothes. GREAT Condition (some new).12-18 mos. \$35.00 925-373-0751

Gift certificates available. Give your loved ones the gift of therapeutic massage. Tri-valley area. 510-791-8623

OAKLAND RAIDERS tickets one (1) each for Atlanta 11/26, NYJets 12/10 and Carolina 12/24 northeast side. 510-655-3839

Toro lawn mower, rear bagger. In good condition. \$75. Call 925-447-5125 925-447-5125

Vending machines , 10 selection for candy, gum, chips and pastry. manual machine never need repair. Have instruction manuls and video. \$150.00 925-455-9342

Telescope: 10inch Meade Newtonian in Dob mount, 2 lenses. Rarely used. New:600, sell for 350obo. 925-373-3146

Baby swing - Graco, battery powered, with all safety retrofits, \$35. Baby and toddler toys and (girl) clothes. Prices vary. 925-294-8302

Lathe; Southbend, 10 inch swing x 36 inch bed. Flame hardened ways. Cabinet included. Good condition. \$2,800 925-606-8763

Portable welding outfit, Uniweld No. 500S oxygen & acetylene, minitorch, 2 extra torches total weight 30 lbs. \$200 OBO 209-836-2524

Medela Pump In Style breastpump and accessories. Excellent condition. \$125. 925-484-3847

Two 49er tickets in section 23 for the Falcons on Nov. 19th and the Bears on Dec. 17th. Face value. 707-255-0736

Portable massage chair, never used, Portal-Pro, black, powder coated, new \$599, asking only \$299. Great DEAL! 925-648-8008

Piano music, 8 volumes, Classical & Popular. Edited by Victor Herbert, circa 1904. New binding. \$200.00 or best offer 925-935-5004

ELECTRIC GUITAR. Kopycat (Japanese) replica of Gibson Les Paul, with new SKB hardshell case. \$300. 925-443-2245

MOTORCYCLES

1989 - 1989KX 250 Kawasaki Motorcycle New top end, asking \$1500 925-449-5803

1997 - Suzuki RM250. Pro Tapers, Applied clamps, Racetech, extra plastic and tires, spares. Meticulously maintained by Vet class rider. \$3395 OBO 209-599-0041

MUSIC INSTRUMENTS

ELECTRIC KEYBOARD. Casiotone 310T, 49 key multi-voice with rhythm-maker, chords, arpeggios. Like new, great Christmas gift. \$65 925-443-2245

1983 Kawai Console piano, with bench, practice pedal. Little used; excellent condition. Recent tune and appraisal, \$2000 925-443-8782

PETS & SUPPLIES

BIRD CAGE: Like new. 32x23x41in, height=66in, bar-spacing=1in. Dometop w/skirt. Lead-free porcelain crocks. MIG welded steel. White finish. \$400 obo. 925-454-8911

RECREATION EQUIPMENT

Nintendo 64 Game Console, 3controllers, additional memory cards, Tremor pack, 7games including PD. Perfect, ideal for Christmas. \$350 or BO 925-736-7799

Scroll-saw, Dremel 16-inch, 2-speed. Pin-end, Plain-ends blades, Quick change-blade adapter. Cast-iron base. Vacuum hook-up, Owers-manual. \$75.00. 925-447-6099

Weights and weight benches- incline bench and flat bench. 245 pounds of iron weight. 2 olympic bars, straight, and curl. Call for details. 510-531-4399

Locking gutter-mount ski rack. Adjusts to fit most cars/SUVs with gutter. \$20. demo/rental-type Marker ski bindings, complete. \$20. 925-447-0596

Ski Boots, Raichle, ladies size 7-8, worn 4 times \$25.00 firm 925-828-8939

Exerciser, upper and lower body motion, CardioGlide Plus, like new, \$30 obo. 925-606-6071

Health-Rider for sale, excellent condition, provides a great workout. Asking \$50.00 925-373-9016

RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

Patterson - Vanpool has seats available. Work hours: 7:30 - 4:00. 209-892-2118, ext. 2-9502

Oakland - Vanpool/carpool requested to leave Oakland/Montclair (near 13/ 580) to arrive at LLNL at 7:45 to 8:00 and depart 4:30 to 4:45. 510-531-4399, ext. 4-6215

Oakdale/Knightsferry - Wishing to join or start a carpool from Knightsferry or Oakdale to LLNL. Start time flexible. Prefer 2 or 3 person carpool. 209-847-1231, ext. 2-8042

San Jose & Fremont Mission - Space is available from San Jose and Fremont-Mission areas. Work hours: 7:30-4:30. Call 408-238-1909, ext. 3-3057

Oakland - Monclair Vanpool is looking for riders. Luxury Vanpool with reclining seats and riding lites 8:15am - 5:05pm. Pretax reduction available. 510-834-6405, ext. 4-5173

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

FIRE

Continued from page 1

The study will include the Laboratory, Lawrence Berkeley and Sandia national laboratories, along with Los Alamos, Hanford and Idaho National Engineering and Environmental Laboratory. The latter three sites experienced massive wildfires over the spring and summer months, causing \$300 million in damage to the Los Alamos site alone. That fire, a prescribed burn at a nearby national park that went out of control, left 400 people, mainly LANL employees, homeless.

“The recent fires at several Energy Department sites underscore the need to ensure systems are in place for dealing as effectively as possible with any future fire emergencies,” said Richardson in a satellite teleconference last week. “The actions that I am ordering, including the establishment of a fire advisory commission, are designed to help identify and correct any deficiencies in emergency preparedness at department facilities across the country.”

Richardson acknowledged the DOE sites are of added concern because they are homes to complex and expensive scientific equipment, as well as hazardous or radioactive materials. However, there were no radioac-

tive releases during the fires at the three DOE sites.

DOE is also the nation’s fifth largest landowner, so “we need to be good stewards of the land,” Richardson said. Ultimately the safety and prevention recommendations of the panel could have an impact on how fires are handled on a regional basis, Richardson added.

The three-part plan includes convening an independent commission of nationally recognized fire safety and emergency management experts to assess the adequacy of the department’s fire safety programs. It also calls for an immediate review of the department’s fire safety and emergency management capabilities, to be followed by a more comprehensive evaluation of facility fire safety. Finally, it directs the department to formalize a cooperative agreement with the departments of Agriculture and Interior in the areas of planning, preparation, prevention and fire emergency response.

John Sharry, the Lab’s fire chief, said the Lab has always been proactive toward the prevention of fires, adding that the wildland fire threat at sites such as Los Alamos or Hanford in Washington does not exist in Livermore. “Our fire problem is clearly a California fire problem. We do not have the urban rural mix or the forest threat that created firefighting difficulties in Los Alamos or Idaho.”

The Lab’s biggest fire threat is at Site 300, which is surrounded by grasslands that become tinder dry in the summer months. Each year the Lab sets controlled pre-emptive fires to prevent any burn on Lab land from spreading.

The fire advisory commission is the central component of the Secretary’s Fire Action Plan. The commission will provide guidance on the readiness of the Department of Energy complex from the threat of wildland and facility fires. The commission will evaluate the state of the department’s fire protection programs and emergency response systems, and review the scope and approach of the comprehensive study. The commission will also review site-specific information, including fire protection plans and “lessons learned” reports from individual Energy Department facilities. The 14-member panel is chaired by Steven Cozen of Cozen & O’Connor in Philadelphia, and has two co-chairs: Jack Snell, director, National Institute of Standards and Technology, Building and Fire Research Laboratory; and Jesse Roberson, a member of the Defense Nuclear Facilities Safety Board. A final report is expected to be completed in time for the department to act before the 2001 fire season begins.

SITE 300

Continued from page 1

work at the Laboratory.”

Located just off of Corral Hollow Road outside the main entrance to the experimental test facility, the \$5.3 million fire and medical complex is the latest construction project to be completed at Site 300.

“With upgrades and new facilities, we’ve committed to taking Site 300 into the next three decades of work,” Bookless said. “The fire station is an important addition not only to Site 300, but to the surrounding community as well. We’re happy we can support the community in this way.”

Laboratory Fire Chief John Sharry gave a brief history of the effort to make the new emergency facilities a reality. “I have to admit I didn’t think I’d ever be standing here doing this,” he said. “This is a vast improvement from what we had.”

Sharry said Milt Grissom, former Site 300 manager, played a key role in making the project a reality. Mike Atkinson, project manager, and Bernie Mattimore of Plant Engineering were also credited with providing the continuity of leadership that brought the new facilities to fruition.

Jim Seward, medical director of Health Services, said construction of the new medical center is “an important statement to Site 300 employees about how much we value them.

“It’s important to recognize that people at Site 300 have a difficult job and that they make an important

contribution to the Laboratory and the nation,” Seward said. “This new facility will help us deliver the preventive programs we feel are very important to employees.”

Richard Mortensen, acting director for the DOE Oakland Operations Office Defense Programs Operations Division, awarded a plaque to Mike Atkinson, project manager for the fire station and medical facility, and provided commemorative plaques for the fire station and medical center.

Scott Tyrrell from Congressman Richard Pombo’s office also awarded Site 300 Manager Larry Sedlacek a certificate marking completion of the new emergency facilities.

The new facilities, totaling 9,500 square feet, were built to comply with current emergency facility and earthquake safety standards. In addition to providing emergency services to the 11-square-mile test site, the Site 300 fire company responds to emergencies along Corral Hollow Road and surrounding regions under automatic aid agreements.

“We simply outgrew the fire station we were in,” said Sharry prior to the ceremony. “The building wasn’t adequate for staff increases and new firefighting equipment.

“The new facility is designed to be a modern station,” Sharry said, replete with the decontamination facilities now required by national fire department standards.

He also said the old Bldg. 870 fire station was less accessible to fire trucks and emergency vehicles. The new fire station has a drive-through bay and has easi-

er access to Corral Hollow Road. “We provide community service to our neighbors on Corral Hollow Road, including Carnegie Park,” Sharry said.

The Lab Fire Department’s Station 2 responds to about 80 calls a year, half of which are outside calls, mostly wildland fires. The station is staffed by a four-person fire company made up of a captain and three firefighters, including a paramedic. Lab firefighters assigned to Site 300 are rotated quarterly.

Experimental facilities and infrastructure such as roads, the water system and access gates at Site 300 have recently been upgraded under a revitalization project designed to accommodate increased experimental activities related to stockpile stewardship.

Construction of the Contained Firing Facility at Bldg. 801, which will allow indoor explosives testing, is nearing completion and the facility is scheduled to come on line in July 2001.

“The new fire station and medical facilities provide the modern infrastructure Site 300 needs to fulfill the Laboratory’s evolving national security mission, notably stewardship of the nation’s nuclear stockpile,” said Sedlacek.

The new 2,700-square-foot medical center provides greater comfort and space for conducting physicals, blood tests and record keeping. The center is staffed by a registered nurse with nurse practitioners making regular visits from the main site to conduct physical exams.

“These new facilities show the importance of Site 300 employees,” said Linda Garcia-Wall of the Health Services Department at Site 300.

<div>SERVICES</div> <div>Used medical supplies and equipment will be sent to Red Cross clinics in Torreon,Mexico. Tax receipt avail. 925-447-7394</div> <div>Christmas Trees - by BSA Troop 999, Livermore. Railroad Ave and North L. Weekdays 3PM-9PM, Weekends 9AM-9PM. Beautiful Trees \$25-\$45. 925-443-4413</div> <div>Hauling service. Estate cleanouts, Attics, Garage, Shed & Barns. Misc... P/U & Del. avail. 925-373-9540</div> <div>Painting - Exterior & Interior, free estimates and lab discount. 925-447-5132</div> <div>House and Pet and sitter- Mature, reliable, and can do the tri valley area, call for info. 925-447-3977</div> <div>TUTORING in high school and college math and chemistry. 925-443-2095</div>	<div>TRUCKS & TRAILERS</div> <div>1986 - Toyota 4x4 w/shell, carpet kit. 22R eng. 5 spd. 191K freeway miles. Very clean and reliable. All receipts. Nice truck! \$4,000 925-606-8763</div> <div>1995 - Chevy Extended Cab Silverado 1/2 ton Pickup.350 V/8, Tow Pack,PS,PB,Power Seat, PW,PDL, A/C,TW, CC,AM/Fm Cassette,Shell,63K miles, 209-823-4080</div> <div>1997 - Ford F150, super cab, long bed w/liner, Christmas green, 3 door, call for more details. 925-447-4711</div> <div>1990 - Elite motorhome 33ft 1990 250 cat diesel 9.3 mpg excellent shape fully loaded price \$45,000 925-443-9255</div> <div>1991 - TOYOTA TRUCK, Ext. Cab, 5 spd,Burgandy exterior, gray interior, BEDLINER, hitch w/lights, great on gas. \$4,500 OBO, call after 6pm 209-529-0431</div> <div>1987 - 24 foot prowler travel trailer. Sleeps 6, ac, good condition. \$4000/ offer 209-368-4286</div> <div>1996 - GMC SUBURBAN SLT,4X4, 71000 mi.,white,gray leather int.,cd,3rd seat,rear ac,tow package,keyless entry,very very clean,\$22900. 209-883-1847</div> <div>1999 - Winnebago, Adventure 35Ft,</div>	<div>Class A Motorhome, 4,600 Miles. Loaded with extras. Priced to sell close to Low Blue Book. Just like new. 925-684-3885</div> <div>1979 - Chevy Pick-Up 1/2 Ton \$2000.00 OBO 925-447-0558</div> <div>1984 - Chevy K5 Blazer 4X4, new transmission, needs front end work. Good teen project. \$2500.00 925-449-0865</div> <div>1997 - Chevy Sport truck - custom suspension, paint, stereo, alarm, remote start, wheels. 200hp v6, 1/2 ton, tow hitch, 38k miles. \$15500 925-443-1150</div> <div>1997 - 1/2 ton pick up. 2wd Air, cr.cont, tilt, tow pack., bug shield, bed liner, am/fm cass., tinted glass, only 45,000mi. Excellent cond. \$13,000.00 209-825-9848</div> <div>1999 - DODGE Dakota Club Cab, Silver, V63.9, Auto4X4, 26,800Mi, CC, PWR Everything, Stereo/ Cass/ Disc, Bedliner, Etc, ExcCond \$18,500... Bluebook\$22,095. 925-200-0124</div> <div>1980 - Horse Trailer 4 Horse Hale tandem axle 1,000 must sale licensed paid. 209-239-2812</div> <div>1994 - Ford F-350 Crew Cab: tow package; reverse ball gooseneck hitch; electric brake; AT; Anti-lock brakes; ABS; PW; PL; AC; Alarm; CD; & more. \$15,000/OBO 925-447-8264</div>	<div>1988 - Allegro Motorhome, 28 feet, 58K, micro,A/C, 4.5kw generator, sleeps 6-8. \$11,995 or B/O 510-581-5228</div> <div>1989 - Ford XLT F250, 5.8L, 64K miles, 92 Vacationeer camper, 10ft.4in., self-contained, awning, air, tow bar, \$16K OBO; or camper only \$7K 510-793-2031</div> <div>1991 - Toyota pickup truck, exel. condition, 5speed, 80K mi. black w/silver shell,bedliner,bumper, 2way window, protable cassette player, \$5500/obo 650-368-8338</div> <div>1989 - Chevy dually 454 - 54k miles, A/T, Air,Tilt, 5th Wheel, Xtra Cab, Blue.....\$8,000 925-625-5252</div>	<div>WANTED</div> <div>Wanted: Small boat motor 5 HP or less or electric in good condition for reasonable price. 925-449-0463</div> <div>Shoppers seeking Chili Pepper kitchen towels at Lab Holiday Bazaar. I have a limited supply. 447-3780</div> <div>Large curio cabinet or china cabinet with hutch for collectible items. Prefer dark wood. 925-243-0760</div> <div>Wanted nanny for 3 kids, 2,5 & 6 yr old. Free room and board. CA drivers license and references required. Salary negotiable. 209-239-9523</div> <div>Wanted: Moving boxes. Will come and haul them away. Call 209-832-3772</div> <div>Phase converter, 2 H.P. or larger. Reasonably priced. 209-848-1375</div> <div>After school care (5-10 hrs/week) for student at Altamont Creek. Must live in area. 209-839-8759</div> <div>Militaria collector wants WWII memorabilia,helmets,flags,daggers,etc. 209-957-3471</div> <div>Any US Commemorative Stamps unused,Sheets or Plate Blocks, NO singles 925-803-1191</div> <div>Got any flat sheet metal sitting around you want to get rid of? Old rusted or New, I need it for my hobby</div>
<div>SHARED HOUSING</div> <div>Livermore - Partly furnished room in 3BD/2BA house with laundry, phone, cable modem, storage space & grads type housemates. N/S \$425 + 1/3 utils. 925-449-3165</div>			<div>VACATION RENTALS</div> <div>Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761</div> <div>SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished,quiet area , all amenities,close to all ski areas,New Years week Open!Reserve Now! 209-599-4644</div> <div>New Year at Heavenly-2 bedroom, 2 bath fully furnished, indoor swimming pool, slp 6, walk/shuttle to ski lifts & casinos, 12/29-1/5, evenings 925-299-0451</div>	



THE BACK PAGE

SPACE

Continued from page 1

optical, and relatively bright at near-infrared wavelengths.

However, these predictions were not confirmed by the deep images obtained by van Breugel and collaborators. In fact, the galaxy was detected in optical light at a level that was 100 times brighter than expected and remained invisible in the infrared. The galaxy was much bluer than initially thought. The faint emission line observed by Chen's team is therefore more likely to be based on oxygen instead of hydrogen gas. This resulted in a much smaller distance estimate of 9.8 billion light years and the re-classification of the object as a small dwarf galaxy, similar to Earth's neighboring Magellanic Clouds visible from the Southern hemisphere.

"At LLNL we have been at the forefront of distant galaxy searches for many years, and we realize that sometimes a difficult measurement may turn out to be in error," Van Breugel said. "We hope that our own record of a galaxy, which emits powerful radio waves at a distance

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At LLNL we have
been at the forefront of
distant galaxy searches
for many years. . .

—Wil Van Breugel

”

of 12.3 billion light years, will stand the test of time.”

The 'hunt' for the most distant galaxies has been important since the first major telescopes were built. It led Edwin Hubble in 1924 to conclude that the universe expands, and later resulted in the now commonly held belief that the universe started with a hyper-energetic

"big bang" about 13.1 billion years ago. With much more sensitive detectors and larger telescopes now available, the most distant galaxies are beacons for measuring how galaxies and the universe formed. Even with modern instruments, the most distant galaxies are very difficult to detect and occasional misidentifications can occur.

With the estimated distance of 12.5 billion light years for STIS 123627+621755 no longer correct, the new titleholder for the most distant object known belongs to a quasar, an active black hole at 12.4 billion light years. The race to find the most distant objects in the universe is very tight. It depends not only on accurate measurements, but also on assumptions of how we think the "Big Bang" occurred.

Besides Van Breugel and De Vries of LLNL, the team also includes Daniel Stern and Peter Eisenhardt of the Jet Propulsion Laboratory; Hyron Spinrad and Steve Dawson of UC Berkeley; Adam Stanford of UC Davis and Arjun Dey of the Kitt Peak National Observatory.

ENVIRONMENT

Continued from page 1

highest median concentration of tritium for the Livermore Valley was 0.001 percent of the federal standard. Similar results were found at air sampling locations in areas around Site 300. Federal radioactivity exposure standards are highly protective of the public and limit the annual dose an individual can receive.

LLNL has never come close to exceeding the federal standards for the public. Throughout 1999, LLNL operated 76 samplers at six facilities to measure any radioactivity in effluent air generated from Lab operations. Radionuclide emissions from all monitored facilities remain very low. Emissions of nonradioactive hazardous and toxic air pollutants in Laboratory operations in 1999 were low. For example, total nitrogen oxide emission from the Livermore site was approximately 81 kilograms per day.

This is about 0.06 percent of the amount released daily from all sources in the Bay Area. Twenty-four kilograms of reactive organic compounds were emitted per day. This is approximately one five-thousandth of the total Bay Area emission of that pollutant.

Approximately 140 kilograms a day of criteria air pollutants (including nitrogen oxides, volatile organics, sulfur oxides, particulate matter, carbon monoxide and lead) are emitted per day from the Livermore site and about 6 kilograms are emitted from Site 300. These releases from the LLNL sites are a small fraction of the total daily emissions in the entire Bay Area.

Wastewater monitoring for radioactive and other hazardous materials

The Livermore site discharges 1 million liters of wastewater daily to the City of Livermore sewer system (approximately 4.4 percent of the total flow to the system). The sewage flow from LLNL to the Livermore Water Reclamation Plant (LWRP) is monitored continuously. If any significant releases of radioactivity, metals, or high or low pH water are detected, the wastewater is redirected to a LLNL sewer diversion system before it leaves the LLNL site. It is then treated and disposed of appropriately.

In 1999, LLNL achieved 100 percent compliance with LWRP permit limits. The city did not issue any notices of violation, and no sewer releases exceeded discharge limits for radioactive materials.

Water monitoring for radionuclides and other contaminants

The 1999 the maximum tritium activity measured in on- and off-site drinking water was less

than 0.05 percent of the regulatory maximum contaminant level (MCL). Gross alpha and gross beta radioactivity measurements were also well below regulatory levels of concern.

In the Livermore Valley, no monitored radioactive or inorganic nonradioactive constituent was found to exceed primary drinking water MCLs in any off site well. In on-site wells, chromium and nitrates have been detected above the primary MCL, but these constituents have not migrated off site at levels above the primary MCLs. The shallow groundwater beneath Site 300 contains volatile organic compounds (VOCs), tritium, nitrate, Freon, perchlorate and depleted uranium. These present no current health risks because the shallow groundwater is not used as a source of supply.

Soil and sediment monitored for plutonium, other radionuclides

Most of the analyses of 1999 on-site soil samples did not detect any nonradiological contaminants labeled as "constituents of concern." A few analyses detected either trace amounts of contaminants, or naturally occurring background concentrations. Radiological results were unchanged from previous years. Elevated concentrations of depleted uranium were found near two Site 300 firing tables.

All soil samples taken in the City of Livermore's Big Trees Park in 1998 yielded results well below levels of regulatory concern. A January 2000 report by the Agency for Toxic Substances and Disease Registry (ATSDR) confirmed these results.

The ATSDR report finds that the most credible source of the plutonium in the park is from sewage sludge applied to ornamental trees several decades ago. The source of the plutonium was LLNL releases to the Livermore sanitary sewer in the 1960s.

Vegetation and foodstuff monitoring for tritium in general showed values not significantly different from the past few years. As usual, there was slightly more tritium near the Livermore site than was found at more distant locations. Potential ingestion dose estimates were well below levels of regulatory concern, even when organically bound tritium was taken into account.

Groundwater remediation

In 1999, treatment facilities at the Livermore site processed over 1 billion liters of groundwater. Nearly 270 kilograms of VOCs were removed during treatment. More than 39 kilograms of VOCs

were removed from soil and groundwater in five treatment areas at Site 300. These efforts reduced the length of the previously off-site trichloroethylene plume to where it is now inside the site boundary. There is no longer an off-site plume of contamination.

Waste minimization and pollution prevention

Waste generation at LLNL continues to drop dramatically. There were reductions in three categories: radioactive, hazardous and sanitary. Mixed waste (radioactive and hazardous waste combined) did not diminish. Total LLNL waste diverted from landfills in 1999 was 47,000 tons. That means the Lab recycled 89 percent of its nonhazardous waste.

Radiological dose assessment

Every year a theoretical dose to the public is calculated based upon what an individual would receive if he/she lived for a year where the highest radiation dose would occur. For the Livermore site that dose is 0.12 millirem. For Site 300, it is 0.035 millirem. These values are well within those estimated over the past decade and are very small compared with radioactive dose from natural background sources.

For a complete copy of the 1999 Site Annual Environmental Report, see the Web at <http://www-envirinfo.llnl.gov/>.



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